

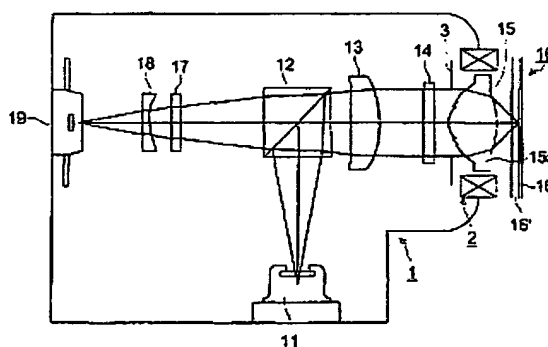
9/7

EP-1102250 A2

KONICA CORP

Publ. date:20010523

Optical pick-up for optical system, has plastic objective lens that converges light from light source, satisfy a preset condition



Use Advantage:USE - For optical system for recording and reproducing optical information from medium such as CD, DVD, e.g. CD reproducing apparatus. **ADVANTAGE** - Since objective lens is plastic lens, structure of pick-up is simplified and cost reduction is enabled. Since objective lens satisfies preset condition, changing spherical aberration for fluctuation of ambient temperature is smaller. **DESCRIPTION OF DRAWING(S)** - The figure shows the conceptual diagram of optical pick-up apparatus. Plastic

BEST AVAILABLE COPY

objective lens 16

Abstract:NOVELTY - The plastic objective lens (16) of converging optical system converges the light flux with preset wavelength from a light source onto information recording medium. The plastic objective lens with diffraction section on one surface, satisfies the condition $0.3 \leq \frac{\pi R}{\pi R + \pi}$ at most πR divided by π at most 1.5, where πR and π are refractive power and power of objective lens in wavelength of light source, respective. **DETAILED DESCRIPTION - INDEPENDENT CLAIMS** are also included for the following: (a) Objective lens (b) Recording and reproducing apparatus

Bibliographic data:

Accession number:	2001-572287
Company codes:	KONS
Number of pages:	109pp
Inventor(s):	ARAI N KOJIMA T
Patent family:	EP-1102250 A2 TW-470866 A CN-1298175 A JP-2001143301 A KR-2001051719 A JP-2001283459 A US-6366542 B1
Derwent code(s):	T03-B02B W04-C02B
International patent classification:	F16C013/00 G02B013/00 G02B013/18 G03B027/58 G11B007/12 G11B007/135

Priority details:	JP1999 JP-0326728 19991117 JP2000 JP-0017435 20000126
Earliest priority date:	19991117
Basic update:	200165

for internal use only - © Derwent Information Limited (2003)

BEST AVAILABLE COPY